

CLAIMS

What is claimed is:

5           1.    A fluoropolymer-based composition  
comprising:

          (a) a cationic fluoroacrylate copolymer with a glass  
transition temperature near ambient temperature;

          (b) a cationic fluoroacrylate copolymer with a glass  
10 transition temperature of about 80°C to about 100°C;

          (c) a nonionic hydrophilic softener; and

          (d) an inorganic additive.

          2.    The composition according to claim 1,  
15 wherein (a):(b) is greater than about 50:50.

          3.    The composition according to claim 1,  
wherein (a):(b) is greater than about 60:40.

          4.    The composition according to claim 1,  
20 wherein (a):(b) is greater than about 70:30.

          5.    The composition according to claim 1,  
wherein (a):(b) is less than about 85:15.

          6.    The composition according to claim 1,  
wherein (a):(b) is less than about 80:20.

          7.    The composition according to claim 1,  
30 wherein (a):(b) is about 75:25.

          8.    The composition according to claim 1,  
wherein (a) and (b) comprise greater than about 5% of the  
composition by volume.

35

9. The composition according to claim 1, wherein (a) and (b) comprise greater than about 10% of the composition by volume.

5 10. The composition according to claim 1, wherein (a) and (b) comprise less than about 25% of the composition by volume.

10 11. The composition according to claim 1, wherein (a) and (b) comprise less than about 20% of the composition by volume.

15 12. The composition according to claim 1, wherein (a) and (b) comprise about 15% of the composition by volume.

13. The composition according to claim 1, comprising (c) in greater than about 0.1% by volume.

20 14. The composition according to claim 1, comprising (c) in less than about 5% by volume.

25 15. The composition according to claim 1, comprising (c) in less than about 2.5% by volume.

16. The composition according to claim 1, comprising (c) in about 1% by volume.

30 17. The composition according to claim 1, comprising (d) in greater than about 0.1% by volume.

18. The composition according to claim 1, comprising (d) in less than about 5% by volume.

19. The composition according to claim 1,  
comprising (d) in less than about 2.5% by volume.

5 20. The composition according to claim 1,  
comprising (d) in about 1% by volume.

21. The composition according to claim 1,  
comprising water in greater than about 65% by volume.

10 22. The composition according to claim 1,  
comprising water in greater than about 75% by volume.

15 23. The composition according to claim 1,  
comprising water in less than about 90% by volume.

24. The composition according to claim 1,  
comprising water in about 80-85% by volume.

20 25. The composition according to claim 1,  
comprising  
    (a):(b) in a ratio of about 75:25, wherein (a)  
and (b) comprise about 15% of the composition by volume;  
    about 1% (c) by volume;  
    about 1% (d) by volume; and  
25     about 80-85% water by volume.

26. A method for applying an oil and/or water  
repellent composition comprising the steps of:  
    providing a substrate;  
30     providing effective repellency enhancing  
amounts of an oil and/or water repellent composition  
according to any one of claims 1-25;  
    applying said oil and/or water repellent  
composition to said substrate as a continuous stream from  
35 a hand-held air pressurized pump.

27. The method according to claim 26, wherein said substrate is a fabric substrate.

5 28. The method according to claim 26, wherein said substrate is a textile substrate.

29. The method according to claim 26, wherein said substrate is a wool carpet substrate.

10 30. The method according to claim 26, wherein said substrate is a paper substrate.

15 31. The method according to claim 26, wherein said substrate is a leather substrate.

32. The method according to claim 26, wherein said substrate is a natural flooring substrate.

20 33. The method according to claim 26, wherein said substrate is a wood substrate.

34. The method according to claim 26, wherein said substrate is a stone substrate.

25 35. The method according to claim 26, wherein said substrate is a wallpaper substrate.

36. The method according to claim 26, wherein said substrate is a tile substrate.

30 37. A substrate having oil and water repellency, the oil and water repellency imparted on the substrate by a method according to claim 26.

38. A method for applying an oil and/or water repellent composition comprising the steps of:

providing a substrate;

5 providing effective repellency enhancing amounts of an oil and/or water repellent composition according to any one of claims 1-25;

10 applying said oil and/or water repellent composition to said substrate by means of a hand-held roller.

39. A substrate having oil and water repellency, the oil and water repellency imparted on the substrate by a method according to claim 38.

15 40. A method for preparing a composition according to any one of claims 1-25 comprising the steps of combining:

(a) a cationic fluoroacrylate copolymer with a glass transition temperature near ambient temperature;

20 (b) a cationic fluoroacrylate copolymer with a glass transition temperature of about 80 to about 100°C;

(c) a nonionic hydrophilic softener; and

(d) an inorganic additive.

25 41. A composition prepared according to the method of claim 40.